EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("6636878").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:43
L2	621	(snapshot with restor$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:58
L3	101	(snapshot with log with file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:50
L4	24	2 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:44
L5	6	4 and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:50
L6	289	(restor$3 with log with file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:51
L7	12	2 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:50
L8	0	7 and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:51

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L9	765	(restor$3 with (log or block$3) with file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:34
L10	19	2 and 9 and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:58
L11	1309	(snapshot with (restor$3 or backup))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:58
L12	25	11 and 9 and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 13:58
L13	1439	(snapshot with (restor$3 or backup or archiv$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:35
L14	25	13 and 9 and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:00
L15	84	11 and (707/201-204).ccls. and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:00
L16	11	15 and 9 and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:35

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L17	2	("7017076").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:25
L18	838	(restor$5 with (log or block$3) with file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:34
L19	1463	(snapshot with (restor$5 or backup or archiv$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:35
L20	102	18 and 19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:35
L21	17	10 and backup and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/01 14:35

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1 A methodology for fast PC hard disk state restoration
David D. Langan, Thomas J. Scott
March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's SAC '92**
Publisher: ACM Press
Full text available: pdf(676.05 KB) Additional Information: full citation, references, index terms

2 Peer-to-peer infrastructure: Pastiche: making backup cheap and easy
Landon P. Cox, Christopher D. Murray, Brian D. Noble
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press
Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, cited by, index terms

Backup is cumbersome and expensive. Individual users almost never back up their data, and backup is a significant cost in large organizations. This paper presents *Pastiche*, a simple and inexpensive backup system. Pastiche exploits excess disk capacity to perform peer-to-peer backup with no administrative costs. Each node minimizes storage overhead by selecting peers that share a significant amount of data. It is easy for common installations to find suitable peers, and peers with high ove ...

3 Frangipani: a scalable distributed file system
Chandramohan A. Thekkath, Timothy Mann, Edward K. Lee
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(2.20 MB) Additional Information: full citation, references, citings, index terms

4 Decentralized storage systems: Ivy: a read/write peer-to-peer file system
Athicha Muthitacharoen, Robert Morris, Thomer M. Gil, Benjie Chen
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press
Full text available: Additional Information: full citation, abstract, references, cited by, index

pdf(1.65 MB) terms

Ivy is a multi-user read/write peer-to-peer file system. Ivy has no centralized or dedicated components, and it provides useful integrity properties without requiring users to fully trust either the underlying peer-to-peer storage system or the other users of the file system.An Ivy file system consists solely of a set of logs, one log per participant. Ivy stores its logs in the DHash distributed hash table. Each participant finds data by consuiting all logs, but performs modifications by appendi ...

5 Software support for portable storage: Reliability mechanisms for file systems using non-volatile memory as a metadata store

Kevin M. Greenan, Ethan L. Miller

October 2006 **Proceedings of the 6th ACM & IEEE International conference on Embedded software EMSOFT '06**

Publisher: ACM Press

Full text available: pdf(301.21 KB) Additional Information: full citation, abstract, references, index terms

Portable systems such as cell phones and portable media players commonly use non-volatile RAM (NVRAM) to hold all of their data and metadata, and larger systems can store metadata in NVRAM to increase file system performance by reducing synchronization and transfer overhead between disk and memory data structures. Unfortunately, wayward writes from buggy software and random bit flips may result in an unreliable persistent store. We introduce two orthogonal and complementary approaches to reliabl ...

Keywords: error correcting codes, file system reliability, metadata, non-volatile memory, online consistency checking

6 Networked embedded software: S²DB: a novel simulation-based debugger for sensor network applications

Ye Wen, Rich Wolski, Selim Gurun

October 2006 **Proceedings of the 6th ACM & IEEE International conference on Embedded software EMSOFT '06**

Publisher: ACM Press

Full text available: pdf(221.61 KB) Additional Information: full citation, abstract, references, index terms

Sensor network computing can be characterized as resource-constrained distributed computing using unreliable, low bandwidth communication. This combination of characteristics poses significant software development and maintenance challenges. Effective and efficient debugging tools for sensor network are thus critical. Existent development tools, such as TOSSIM, EmStar, ATEMU and Avrora, provide useful debugging support, but not with the fidelity, scale and functionality that we believe are suffi ...

Keywords: ebugging, sensor network, simulation

7 Horizontal decomposition of Prevayler

Irum Godil, Hans-Arno Jacobsen

October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**

Publisher: IBM Press

Full text available: pdf(591.00 KB) Additional Information: full citation, abstract, references, citings, index terms

Aspect-Oriented Programming (AOP) is an emerging paradigm to modularize crosscutting concerns. A series of guidelines to refactor a software system into a common core and a

set of variable functionalities have become known as Horizontal Decomposition (HD). In this paper we apply the HD principles to the Prevayler main memory database management system. The objective is to evaluate and refine these principles and to extract patterns of their use through a case study on a popular open-source softw ...

8 Session 3: Synapse approach to database recovery

Kee S. Ong
April 1984 **Proceedings of the 3rd ACM SIGACT-SIGMOD symposium on Principles of database systems PODS '84**
Publisher: ACM Press
Full text available: pdf(492.53 KB) Additional Information: full citation, references, citings

9 Cooking with Linux: if only you could restore wine

Marcel Gagné
June 2006 **Linux Journal**, Volume 2006 Issue 146
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(16.68 KB) Additional Information: full citation, abstract, index terms

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10 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz
March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1
Publisher: ACM Press
Full text available: pdf(5.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

11 Embedded systems: applications, solutions and techniques (EMBS): A fast start-up technique for flash memory based computing systems

Keun Soo Yim, Jihong Kim, Kern Koh
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(324.29 KB) Additional Information: full citation, abstract, references, citings, index terms

Flash memory based embedded computing systems are becoming increasingly prevalent. These systems typically have to provide an instant start-up time. However, we observe that mounting a file system for flash memory takes 1 to 25 seconds mainly depending on the flash capacity. Since the flash chip capacity is doubled in every year, this mounting time will soon become the most dominant reason of the delay of system start-up time. Therefore, in this paper, we present instant mounting techniques for ...

Keywords: fast booting, fast mounting, flash memory, metadata snapshot

12 The taser intrusion recovery system

Ashvin Goel, Kenneth Po, Kamran Farhadi, Zheng Li, Eyal de Lara
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5
Publisher: ACM Press
Full text available: pdf(346.32 KB) Additional Information: full citation, abstract, references, index terms

Recovery from intrusions is typically a very time-consuming operation in current systems. At a time when the cost of human resources dominates the cost of computing resources, we argue that next generation systems should be built with automated intrusion recovery as a primary goal. In this paper, we describe the design of Taser, a system that helps in selectively recovering legitimate file-system data after an attack or local damage occurs. Taser reverts tainted, i.e. attack-dependent, file-syst ...

Keywords: file systems, intrusion analysis, intrusion recovery, snapshots

13 Reliable object storage to support atomic actions

Brian M. Oki, Barbara H. Liskov, Robert W. Scheifler
December 1985 **ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles SOSP '85**, Volume 19 Issue 5
Publisher: ACM Press
Full text available: pdf(939.13 KB) Additional Information: full citation, references, citings, index terms

14 Papers: Off the wall: Fluid interaction with high-resolution wall-size displays

François Guimbretière, Maureen Stone, Terry Winograd
November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology UIST '01**
Publisher: ACM Press
Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes new interaction techniques for direct pen-based interaction on the Interactive Mural, a large (6'x3.5') high resolution (64 dpi) display. They have been tested in a digital brainstorming tool that has been used by groups of professional product designers. Our "interactive wall" metaphor for interaction has been guided by several goals: to support both free-hand sketching and high-resolution materials, such as images, 3D models and GUI application windows; to pres ...

Keywords: FlowMenu, Large displays, interactive wall

15 The design and implementation of a log-structured file system

Mendel Rosenblum, John K. Ousterhout
February 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 1
Publisher: ACM Press
Full text available: pdf(1.97 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents a new technique for disk storage management called a log-structured

file system. A log-structured file system writes all modifications to disk sequentially in a log-like structure, thereby speeding up both file writing and crash recovery. The log is the only structure on disk; it contains indexing information so that files can be read back from the log efficiently. In order to maintain large free areas on disk for fast writing, we divide the log into

Keywords: Unix, disk storage management, fast crash recovery, file system organization, file system performance, high write performance, log-structured, logging

16 The Linux implementation of a log-structured file system

Ryusuke Konishi, Yoshiji Amagai, Koji Sato, Hisashi Hifumi, Seiji Kihara, Satoshi Moriai
July 2006 **ACM SIGOPS Operating Systems Review**, Volume 40 Issue 3

Publisher: ACM Press

Full text available: pdf(244.11 KB) Additional Information: full citation, abstract, references, index terms

Toward enhancing the reliability of the Linux file system, we are developing a new log-structured file system (NILFS) for the Linux operating system. Instead of overwriting existing blocks, NILFS appends consistent sets of modified or newly created blocks continuously into segmented disk regions. This writing method allows NILFS to achieve faster recovery time and higher write performance. The address of the block that is written to changes for each write, which makes it difficult to apply moder ...

17 The design and implementation of a log-structured file system

Mendel Rosenblum, John K. Ousterhout
September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP '91**, Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(1.81 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a new technique for disk storage management called a *log-structured file system*. A log-structured file system writes all modifications to disk sequentially in a log-like structure, thereby speeding up both file writing and crash recovery. The log is the only structure on disk; it contains indexing information so that files can be read back from the log efficiently. In order to maintain large free areas on disk for fast writing, we divide the log into *segments* an ...

18 A survey of rollback-recovery protocols in message-passing systems

E. N. (Mootaz) Elnozahy, Lorenzo Alvisi, Yi-Min Wang, David B. Johnson
September 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 3

Publisher: ACM Press

Full text available: pdf(549.68 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This survey covers rollback-recovery techniques that do not require special language constructs. In the first part of the survey we classify rollback-recovery protocols into *checkpoint-based* and *log-based. Checkpoint-based* protocols rely solely on checkpointing for system state restoration. Checkpointing can be coordinated, uncoordinated, or communication-induced. *Log-based* protocols combine checkpointing with logging of nondeterministic events, encoded in tuples call ...

Keywords: message logging, rollback-recovery

19 The Recovery Manager of the System R Database Manager

Jim Gray, Paul McJones, Mike Blasgen, Bruce Lindsay, Raymond Lorie, Tom Price, Franco

Putzolu, Irving Traiger
June 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 2
Publisher: ACM Press
Full text available: pdf(1.75 MB) Additional Information: full citation, references, citings, index terms

20 Ext3cow: a time-shifting file system for regulatory compliance

Zachary Peterson, Randal Burns
May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: pdf(443.01 KB) Additional Information: full citation, abstract, references, citings, index terms

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and audtitability requirements of recent electronic record retention legislation. Ext3cow provides a *time-shifting* interface that permits a real-time and continuous view of data in the past. Time-shifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

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